

STACK OVERFLOW DEVELOPER SURVEY 2019

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OUTLINE



- Executive Summary
- Introduction
- Metholology
- Results
 - Visualization Charts
 - Dashboard
- Discussion
 - Findings & Implications
- Conclusion
- Appendix

EXECUTIVE SUMMARY



- Data Introduction and Analysis Goal
- Methodology Description
 - Data Gathering
 - Data Analysis
 - Data Visualization
- Findings and Results Presentation supported with Visualization
- Discussion of overall findings and implications regarding the analysis results exposed
- Final conclusions

INTRODUCTION



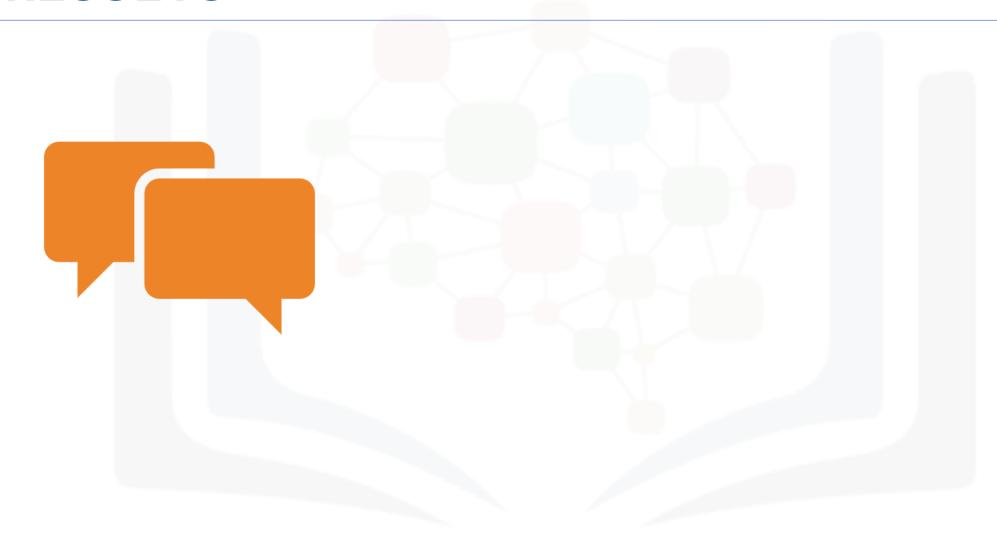
- Stack Overflow's annual Developer Survery is the largest and most comprenhensive survey of people who doing code and programming around the world,
- Nearly 90.000 Developers,
- Trends to predict what Developers are going,
- Developer characterization around the world.

METHODOLOGY



- Collect Survey data and explore the contents
 - Web Scraping
 - APIs
 - Request Library
- Data Wrangling
- Exploratory Dara Analysis
 - Data Distribution
 - Handling Outliers
 - Correlations
- Data Visualization
- Dashboard

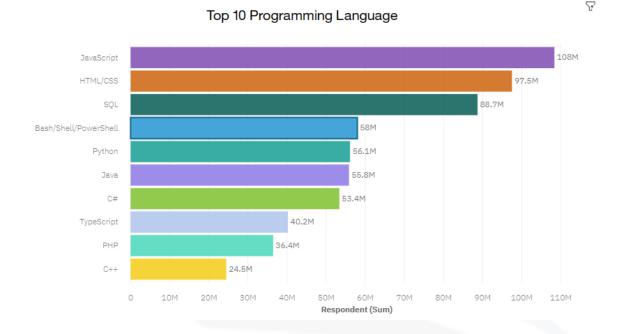
RESULTS

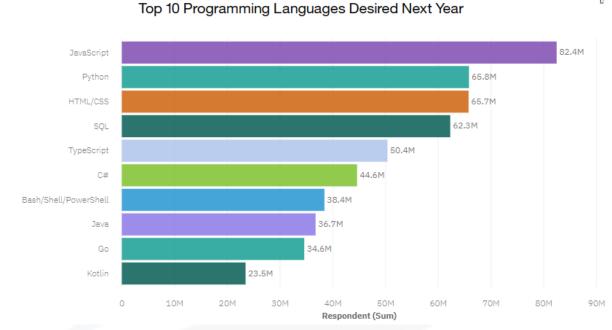


PROGRAMMING LANGUAGE TRENDS

Current Year

Next Year





PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- Javascript seems to keep as leading Programming language,
- Python is fastest growing,
- There are a new Programming languages called Go and Kotling will be desired to learn in the future.

Implications

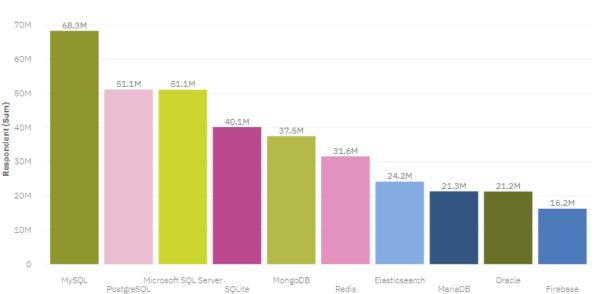
- There is possibility that Kotling and Go will be growth,
- PHP will be leaved in the future.

DATABASE TRENDS

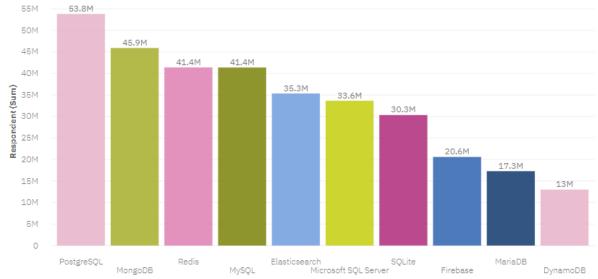
Current Year

Next Year





Top 10 Databases Desired Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MySQL is most used Databases,
- There are increasing interest in PostgreSQL and MongoDB,
- Oracle will be leaved in the future.

Implications

- Microsoft SQL Server and SQLite is losing interest in the market,
- PostgreSQL and MongoDB will be established in the market.

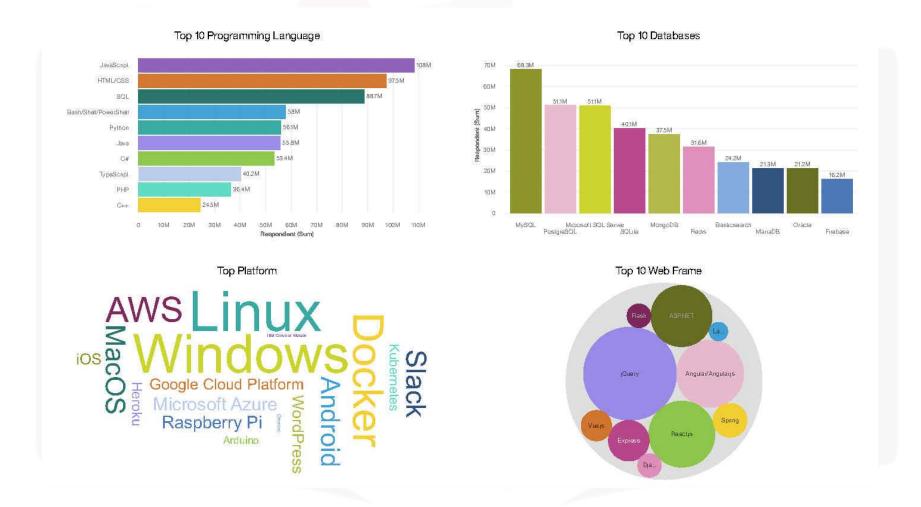
DASHBOARD



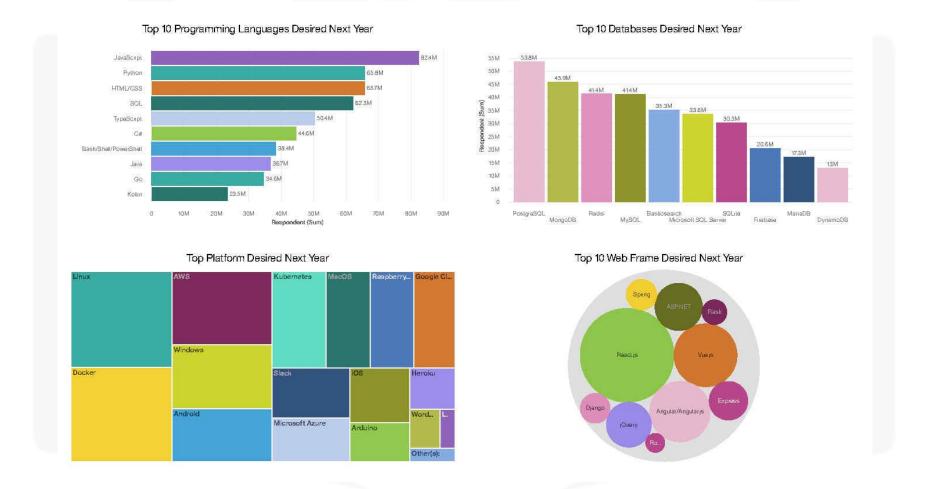
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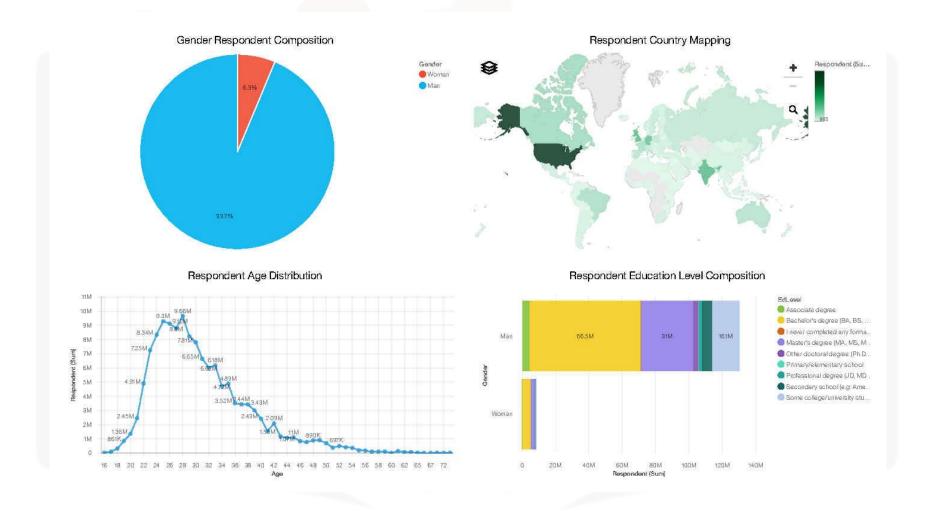
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- Javascript still widely used and most popular Programming languages
- There is possibility Python will be fast growth in the future
- Over 90% from respondents is Male Developers

Implications

- Young Developers without Postgrad studies on its majority
- Python will be widely used on Programming Language in the future
- React.js will be widely used on Web Frame in the Future



CONCLUSION

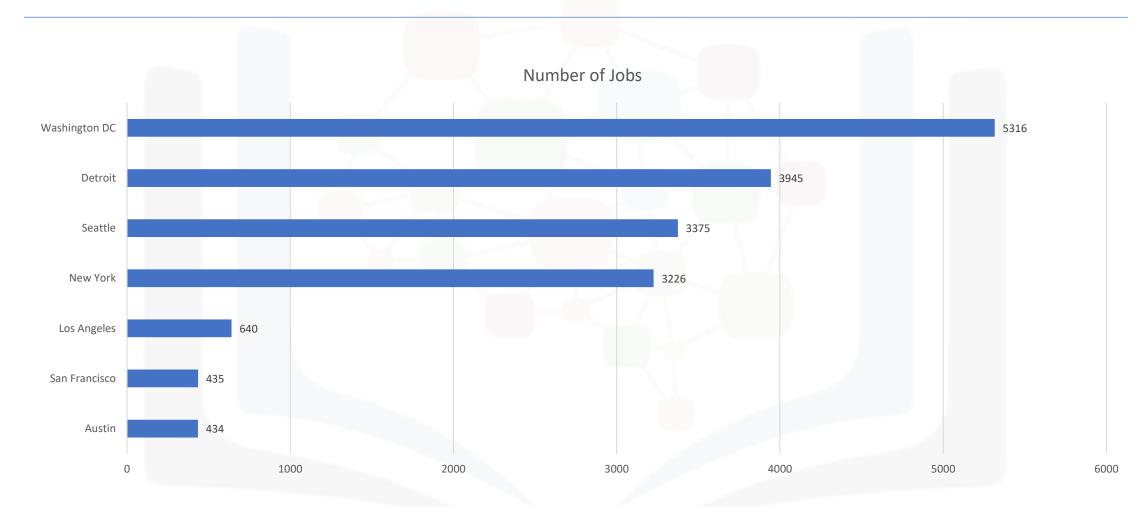


- There is a good idea popularity trends of tools, platform, and languages can be obtained,
- There is opportunity to spread out of accessibility of this trend in development countries,
- Developers job still popular jobs in the future.

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

